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NEWS	7	FEB 16	INPADOCDB and INPAFAMDB Enriched with New Content and Features
NEWS	8	FEB 16	INSPEC Adding Its Own IPC codes and Author's E-mail Addresses
NEWS	9	APR 02	CAS Registry Number Crossover Limits Increased to 500,000 in Key STN Databases
NEWS	10	APR 02	PATDPAFULL: Application and priority number formats enhanced
NEWS	11	APR 02	DWPI: New display format ALLSTR available
NEWS	12	APR 02	New Thesaurus Added to Derwent Databases for Smooth Sailing through U.S. Patent Codes
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NEWS	14	APR 07	CA/Caplus CLASS Display Streamlined with Removal of Pre-IPC 8 Data Fields
NEWS	15	APR 07	50,000 World Traditional Medicine (WTM) Patents Now Available in Caplus
NEWS	16	APR 07	MEDLINE Coverage Is Extended Back to 1947

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

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FILE COVERS 1907 - 21 Apr 2010 VOL 152 ISS 17  
FILE LAST UPDATED: 20 Apr 2010 (20100420/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (coproduction or co-product? or integrat?) (s) hydrocarbon? (3a) dimethyl ether  
235 COPRODUCTION  
597 COPRODN  
664 COPRODUCTION  
(COPRODUCTION OR COPRODN)  
1010531 CO  
32073 COS  
1038348 CO  
(CO OR COS)  
5259025 PRODUC?  
1252670 PRODN  
534 PRODNS  
1252854 PRODN  
(PRODN OR PRODNS)  
5852159 PRODUC?  
(PRODUC? OR PRODN)  
4355 CO-PRODUC?  
(CO(W)PRODUC?)  
432423 INTEGRAT?  
587019 HYDROCARBON?  
397115 DIMETHYL  
48 DIMETHYLS

397139 DIMETHYL  
(DIMETHYL OR DIMETHYLS)

578054 ETHER

168527 ETHERS

645949 ETHER

(ETHER OR ETHERS)

16066 DIMETHYL ETHER

(DIMETHYL(W)ETHER)

L1 1 (COPRODUCTION OR CO-PRODUC? OR INTEGRAT?) (S) HYDROCARBON? (3A)  
DIMETHYL ETHER

=> d l1 ibib ab

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:202099 CAPLUS

DOCUMENT NUMBER: 141:107938

TITLE: Integrated three-step method for the  
production of dimethyl ether from  
hydrocarbon gases or natural gas

INVENTOR(S): Rozovskii, A. Ya.; Lin, G. I.; Kubikov, V. N.;  
Maidurov, N. P.; Petrov, V. N.; Brand, B. B.; Makhlin,  
V. A.

PATENT ASSIGNEE(S): Russia

SOURCE: Russ., No pp. given

CODEN: RUXXE7

DOCUMENT TYPE: Patent

LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
RU 2220939	C2	20040110	RU 2002-101325	20020109
PRIORITY APPLN. INFO.:			RU 2002-101325	20020109

AB Using natural and associated hydrocarbon gases, containing largely methane  
along

with other hydrocarbon and nonhydrocarbon gases, di-Me ether is prepared in  
3 steps: (i) preparation of synthesis gas with a H<sub>2</sub>/CO molar ratio of approx. 1  
according to method of partial non-catalytic oxidation of hydrocarbon gas  
with oxygen in a high-temperature converter while simultaneously correcting the  
composition of the primary partial oxidation products by introducing into the  
reaction zone carbon dioxide and steam streams and utilizing the excessive  
heat content in the stream of gases to be converted at the outlet of the  
converter into steam and water-heating boilers; (ii) synthesis of di-Me  
ether in a reactor using a mixed methanol synthesis-methanol  
etherification catalyst which involves recycling of the reacted synthesis  
gas; and (iii) fractionation of the synthesis products and production of com.  
di-Me ether of ≥95% purity. A process flow diagram is presented.

=> s (coproduction or co-produc? or integrat?) (s) (hydrocarbon? or liquid  
(1a)fuel) (3a) dimethyl ether

235 COPRODUCTION

597 COPRODN

664 COPRODUCTION

(COPRODUCTION OR COPRODN)

1010531 CO

32073 COS

1038348 CO

(CO OR COS)

5259025 PRODUC?

1252670 PRODN  
     534 PRODNS  
 1252854 PRODN  
     (PRODN OR PRODNS)  
 5852159 PRODUC?  
     (PRODUC? OR PRODN)  
     4355 CO-PRODUC?  
         (CO(W)PRODUC?)  
     432423 INTEGRAT?  
     587019 HYDROCARBON?  
     914607 LIQUID  
     160932 LIQUIDS  
 1033373 LIQUID  
     (LIQUID OR LIQUIDS)  
 1290100 LIQ  
     120863 LIQS  
 1335684 LIQ  
     (LIQ OR LIQS)  
 1833090 LIQUID  
     (LIQUID OR LIQ)  
     501414 FUEL  
     190646 FUELS  
     559954 FUEL  
         (FUEL OR FUELS)  
     397115 DIMETHYL  
         48 DIMETHYLS  
     397139 DIMETHYL  
         (DIMETHYL OR DIMETHYLS)  
     578054 ETHER  
     168527 ETHERS  
     645949 ETHER  
         (ETHER OR ETHERS)  
     16066 DIMETHYL ETHER  
         (DIMETHYL(W)ETHER)

L2           1 (COPRODUCTION OR CO-PRODUC? OR INTEGRAT?) (S) (HYDROCARBON? OR  
               LIQUID (1A)FUEL) (3A) DIMETHYL ETHER

=> s (mak? or produc? or synthes? or prepar? or manufactur?) (3a) (hydrocarbon?  
 (2a) dimethyl ether)

    971075 MAK?  
     5259025 PRODUC?  
     1252670 PRODN  
         534 PRODNS  
     1252854 PRODN  
         (PRODN OR PRODNS)  
     5852159 PRODUC?  
         (PRODUC? OR PRODN)  
     1933785 SYNTHES?  
     2092149 PREPAR?  
         157210 PREP  
         2624 PREPS  
     159594 PREP  
         (PREP OR PREPS)  
     2367036 PREPD  
         3 PREPDS  
     2367038 PREPD  
         (PREPD OR PREPDS)  
     197430 PREPG  
         9 PREPGS  
     197439 PREPG  
         (PREPG OR PREPGS)

3145120 PREPN  
 223789 PREPNS  
 3312870 PREPN  
           (PREPNS OR PREPN)  
 5654314 PREPAR?  
           (PREPNS OR PREPN OR PREPD OR PREPG OR PREPN)  
 839808 MANUFACTUR?  
 1196991 MANUF  
           2047 MANUFS  
 1198574 MANUF  
           (MANUF OR MANUFS)  
 294009 MANUFD  
 279470 MANUFG  
 1763161 MANUFACTUR?  
           (MANUFACTUR? OR MANUF OR MANUFD OR MANUFG)  
 587019 HYDROCARBON?  
 397115 DIMETHYL  
           48 DIMETHYLS  
 397139 DIMETHYL  
           (DIMETHYL OR DIMETHYLS)  
 578054 ETHER  
 168527 ETHERS  
 645949 ETHER  
           (ETHER OR ETHERS)  
 16066 DIMETHYL ETHER  
           (DIMETHYL(W)ETHER)  
 L3           31 (MAK? OR PRODUC? OR SYNTHES? OR PREPAR? OR MANUFACTUR?) (3A)  
                   (HYDROCARBON? (2A) DIMETHYL ETHER)

=> s 13 and (tail gas or off gas or offgas or residual gas or unreacted or unconverted)

83967 TAIL  
 15704 TAILS  
 95465 TAIL  
           (TAIL OR TAILS)  
 1846110 GAS  
 597919 GASES  
 2052500 GAS  
           (GAS OR GASES)  
 3251 TAIL GAS  
           (TAIL(W)GAS)  
 409949 OFF  
 3623 OFFS  
 412852 OFF  
           (OFF OR OFFS)  
 1846110 GAS  
 597919 GASES  
 2052500 GAS  
           (GAS OR GASES)  
 8805 OFF GAS  
           (OFF(W)GAS)  
 3802 OFFGAS  
 916 OFFGASES  
 4224 OFFGAS  
           (OFFGAS OR OFFGASES)  
 306204 RESIDUAL  
 7405 RESIDUALS  
 311897 RESIDUAL  
           (RESIDUAL OR RESIDUALS)  
 1846110 GAS  
 597919 GASES

2052500 GAS  
 (GAS OR GASES)  
 7872 RESIDUAL GAS  
 (RESIDUAL(W)GAS)  
 37338 UNREACTED  
 2382 UNCONVERTED  
 L4 6 L3 AND (TAIL GAS OR OFF GAS OR OFFGAS OR RESIDUAL GAS OR UNREACTED OR UNCONVERTED)

=> s 14 not 11

L5 6 L4 NOT L1

=> s 14 not 12

L6 6 L4 NOT L2

=> d 16 ibib ab tot

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:299547 CAPLUS

DOCUMENT NUMBER: 144:314769

TITLE: Hydrocarbon synthesis with Fischer-Tropsch reaction

INVENTOR(S): Steynberg, Andre Peter

PATENT ASSIGNEE(S): Sasol Technology (Proprietary) Limited, S. Afr.

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006033025	A1	20060330	WO 2005-IB50448	20050203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005286113	A1	20060330	AU 2005-286113	20050203
CN 1938400	A	20070328	CN 2005-80008986	20050203
ZA 2006006883	A	20080430	ZA 2006-6883	20060817
IN 2006KN02412	A	20070525	IN 2006-KN2412	20060825
US 20080027150	A1	20080131	US 2007-588476	20070509
PRIORITY APPLN. INFO.:			US 2004-542089P	P 20040205
			WO 2005-IB50448	W 20050203

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A process for synthesizing hydrocarbons includes feeding a gaseous feedstock comprising H, CO and CO<sub>2</sub>, into a di-Me ether (DME) synthesis stage, and in the DME synthesis stage, converting a portion of the gaseous feedstock into a DME product and gaseous products. The DME product is separated from unreacted gaseous reactants and the gaseous products to obtain a tail gas comprising H and CO. The tail gas is fed into a Fischer-Tropsch hydrocarbon synthesis stage, and the H, CO and CO<sub>2</sub> are allowed at least partially to react catalytically in the Fischer-Tropsch hydrocarbon synthesis stage to

form hydrocarbons.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1345853 CAPLUS

DOCUMENT NUMBER: 144:72048

TITLE: Complex method for producing fuel dimethyl ether and gasoline from hydrocarbon gases

INVENTOR(S): Gritsenko, A. I.; Kubikov, V. B.; Lorents, V. Ya.; Petrov, V. N.; Slivinskii, E. V.

PATENT ASSIGNEE(S): OAO "Stroitransgaz", Russia

SOURCE: Russ., 19 pp.

CODEN: RUXXE7

DOCUMENT TYPE: Patent

LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2266893	C2	20051227	RU 2003-131293	20031028
PRIORITY APPLN. INFO.:			RU 2003-131293	20031028

AB A complex method for producing fuel di-Me ether and gasoline from hydrocarbon gases is provided. The method involves successively carrying out stages for recovery of synthesis gas, synthesis of di-Me ether, fractionation and separation of products of synthesis, synthesis of gasoline from the gas-phase flow containing di-Me ether, and fractionation of the products from gasoline synthesis. The synthesis gas is obtained by a method of high-speed nonequil. partial oxidation with formation in outlet of the corresponding stage of the complex process the mole value ratio H<sub>2</sub>/CO in fresh synthesis gas in the range 1.35-1.65, which is not typical for equi-methanol technol. The invention provides schemes and parameters in fractionation of vapor-gaseous mixture in outlet from the di-Me ether synthesis reactor compartment and combinations of schemes with recycle of unreacted and flowing gases are taken for the complex scheme. This process improved the method for making the modified gasoline.

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:811717 CAPLUS

DOCUMENT NUMBER: 143:213349

TITLE: Process for the production of hydrocarbons and dimethyl ether from synthesis gas

INVENTOR(S): Steynberg, Andre Peter; Greeff, Pierre

PATENT ASSIGNEE(S): Sasol Technology Proprietary Limited, S. Afr.

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005075386	A2	20050818	WO 2005-IB50449	20050203
WO 2005075386	A3	20051027		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,  
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,  
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
 MR, NE, SN, TD, TG

AU 2005210265	A1	20050818	AU 2005-210265	20050203
CN 1938401	A	20070328	CN 2005-80010708	20050203
ZA 2006006884	A	20080430	ZA 2006-6884	20060817
IN 2006KN02413	A	20070525	IN 2006-KN2413	20060825
US 20090230024	A1	20090917	US 2008-588475	20080219
PRIORITY APPLN. INFO.:			US 2004-542088P	P 20040205
			WO 2005-IB50449	W 20050203

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A process for co-producing hydrocarbons and di-Me ether (DME) includes feeding a gaseous feedstock, comprising hydrogen and carbon monoxide, into a three-phase, low-temperature catalytic Fischer-Tropsch reaction stage, allowing the hydrogen and carbon monoxide partially to react catalytically in the Fischer-Tropsch reaction stage to form hydrocarbons, and obtaining a tail gas from the Fischer-Tropsch reaction stage which includes unreacted hydrogen and carbon monoxide and also carbon dioxide. The composition of at least a portion of the tail gas is adjusted to provide a DME synthesis feedstock with a syngas number (SN) of 1.8-2.2, where  $SN = \frac{[H_2] - [CO_2]}{[CO] + [CO_2]}$  and where  $[H_2]$ ,  $[CO]$ , and  $[CO_2]$ , resp., are the molar proportions of hydrogen, carbon monoxide, and carbon dioxide in the DME synthesis feedstock. The DME synthesis feedstock is fed into a DME synthesis stage for conversion; process flow diagrams are presented.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:430705 CAPLUS  
 DOCUMENT NUMBER: 129:150352  
 ORIGINAL REFERENCE NO.: 129:30619a,30622a  
 TITLE: Manufacture of dimethyl  
 ether from hydrocarbon gases while  
 recycling unreacted material gases  
 INVENTOR(S): Mizuguchi, Masatsugu; Ogawa, Takashi; Ono, Masami;  
 Tomura, Keiji  
 PATENT ASSIGNEE(S): Nippon Kokan Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 10182533	A	19980707	JP 1996-349203	19961227
PRIORITY APPLN. INFO.:			JP 1996-349203	19961227
AB	In manufacture of Me2O by catalytic reaction of CO- and H-containing material gases, the material gases are manufactured by reforming gas mixts. containing			
(1)	CO2 recovered from products of Me2O manufacture process, (2) saturated hydrocarbon			
	gases, and (3) air. Unreacted gases recovered from Me2O manufacture process are fed to the reformer as heat sources. Thus, Me2O is manufactured using air as a low-cost material, unreacted gases as heat			



sources, and byproduct CO2 as a C source.  
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
(1 CITINGS)

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 1996:598398 CAPLUS  
DOCUMENT NUMBER: 125:252402  
ORIGINAL REFERENCE NO.: 125:47087a,47090a  
TITLE: CO2/dimethyl ether (DME) feed mixtures in the  
DME-to-hydrocarbons (DTH) process  
AUTHOR(S): Sardesai, Abhay; Tartamella, Tim; Lee, Sunggyu  
CORPORATE SOURCE: Process Research Center, University Akron, Akron, OH,  
44325-3906, USA  
SOURCE: Proceedings - Annual International Pittsburgh Coal  
Conference (1995), 12th, 716-721  
CODEN: PICNE4; ISSN: 1075-7961  
PUBLISHER: Pittsburgh Coal Conference, University of Pittsburgh  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The DTH process represents the second stage in the conversion of synthesis  
gas to hydrocarbons, in which DME produced from the LPDME (liquid-phase DME  
manufacturing) process is converted to C1-10-hydrocarbons over a zeolite-type  
catalyst in a fixed-bed tubular reactor in the vapor phase at 375°.  
The product distribution can be controlled by varying the operating  
temperature,  
pressure and space velocity of DME. Unreacted CO2 from the DME  
synthesis reactor represents a potential problem in terms of further  
hydrocarbon processing from a DME feedstock; CO2-DME mixts. are difficult  
to sep. A productivity comparison was made with runs containing feed mixts.  
of CO2-DME and N2-DME mixts. CO2 is not actively involved in the reaction  
kinetics for the conversion of DME to hydrocarbons. Product distributions  
of the gaseous product are similar to those where N2 was used as the  
diluent. Data obtained in the production of hydrocarbons from DME-CO2 mixts.  
were consistent with the accepted mechanism of hydrocarbon formation for  
DME-MeOH systems.

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 1987:87448 CAPLUS  
DOCUMENT NUMBER: 106:87448  
ORIGINAL REFERENCE NO.: 106:14307a,14310a  
TITLE: Synthesis process for producing alkylate hydrocarbons  
INVENTOR(S): Owen, Hartley; Tabak, Samuel A.; Wright, Bernard S.  
PATENT ASSIGNEE(S): Mobil Oil Corp., USA  
SOURCE: U.S., 8 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 12  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4634798	A	19870106	US 1985-779369	19850923
AU 8662005	A	19870326	AU 1986-62005	19860827
AU 628283	B2	19920917		
NO 8603713	A	19870324	NO 1986-3713	19860917
NO 171056	B	19921012		
NO 171056	C	19930120		
EP 216604	A1	19870401	EP 1986-307184	19860918
EP 216604	B1	19910116		

R: BE, DE, FR, GB, IT, NL, SE

CA 1269403	A1	19900522	CA 1986-518548	19860918
JP 62121787	A	19870603	JP 1986-223946	19860924
US 4767604	A	19880830	US 1986-919151	19861015
PRIORITY APPLN. INFO.:			US 1985-779347	A 19850923
			US 1985-779363	A 19850923
			US 1985-779367	A 19850923
			US 1985-779369	A 19850923
			US 1985-779373	A 19850923

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The title process is accomplished by contacting a MeOH or Me2O feedstock with a zeolite at elevated temperature and pressure to produce C2H4 and C≥3 alkenes, which are fractionated in a sorption unit in contact with a liquid C≥4 isoparaffin absorbent to selectively sorb C≥3 alkenes, which are fractionated to recover C≥5 gasoline and to provide a C3-4 alkene-rich stream, which is reacted with a C≥4 isoparaffin in an alkylation reactor in the presence of acid alkylation catalysts to produce C≥7 paraffinic alkylates, from which the unreacted isoparaffins are separated and recycled to the sorption fractionation unit as lean sorbent.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT